

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-5. (Canceled)

6. (New) In a high-pressure pump for a fuel injection system of an internal combustion engine, the high-pressure pump having at least one pump element, which has a pump piston which is guided displaceably in a cylinder bore of a housing part of the high-pressure pump and is driven in a reciprocating motion and which, in the cylinder bore, defines a pump work chamber, into which fuel is aspirated via an inlet valve upon the intake stroke of the pump piston and from which fuel is positively displaced upon the pumping stroke of the pump piston, and the inlet having valve a pistonlike valve member, which with a sealing face cooperates with a valve seat for controlling the communication of the pump work chamber with the fuel inlet, and the valve member is urged in the closing direction by a closing spring and by the pressure prevailing in the pump work chamber and in the opening direction by the pressure prevailing in the fuel inlet, and the valve member, with a head on which the sealing face is embodied, is disposed in the pump work chamber and protrudes from the pump work chamber with a shaft adjoining the head, and the closing spring is disposed outside the pump work chamber and engages the shaft, the improvement wherein the valve seat is formed on the housing part at a transition from the cylinder bore to an adjoining, smaller-diameter bore;

wherein the valve member, with its shaft, protrudes through the bore into a region of the housing part that is remote from the pump work chamber; and wherein the closing spring is disposed in this region of the housing part.

7. **(New)** The high-pressure pump as defined by claim 6, wherein the region of the housing part in which the closing spring is disposed is tightly closed off from the outside of the housing part by means of a closure element; and wherein the fuel inlet discharges into this region.

8. **(New)** The high-pressure pump as defined by claim 2, further comprising a free flow cross section between the shaft of the valve member and the bore, through which free flow cross section fuel flows out of the region into the pump work chamber in the open state of the valve member.

9. **(New)** The high-pressure pump as defined by claim 7, wherein the small diameter bore has a portion discharging into the pump work chamber, between which portion and the shaft of the valve member a flow cross section is uncovered; wherein the small diameter bore has a second portion discharging into the region, in which portion the shaft of the valve member is guided displaceably; and that the first portion of the bore communicates with the region.

10. **(New)** The high-pressure pump as defined by claim 6, wherein the sealing face of the valve member is embodied as convex toward the valve seat, and in particular is embodied as at least approximately in the form of a portion of a sphere.

11. **(New)** The high-pressure pump as defined by claim 7, wherein the sealing face of the valve member is embodied as convex toward the valve seat, and in particular is embodied as at least approximately in the form of a portion of a sphere.

12. **(New)** The high-pressure pump as defined by claim 8, wherein the sealing face of the valve member is embodied as convex toward the valve seat, and in particular is embodied as at least approximately in the form of a portion of a sphere.

13. **(New)** The high-pressure pump as defined by claim 9, wherein the sealing face of the valve member is embodied as convex toward the valve seat, and in particular is embodied as at least approximately in the form of a portion of a sphere.